

Gaber Magdy

List of Publications by Year in descending order

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48
papers

1,171
citations

394421

19
h-index

414414

32
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49
all docs

49
docs citations

49
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Positive and Negative Impacts of Electric Vehicles Charging on Electric Power Systems. Energies, 2020, 13, 4675.	3.1	121
2	SMES based a new PID controller for frequency stability of a real hybrid power system considering high wind power penetration. IET Renewable Power Generation, 2018, 12, 1304-1313.	3.1	98
3	A New Frequency Control Strategy in an Islanded Microgrid Using Virtual Inertia Control-Based Coefficient Diagram Method. IEEE Access, 2019, 7, 16979-16990.	4.2	94
4	A Novel Coordination Scheme of Virtual Inertia Control and Digital Protection for Microgrid Dynamic Security Considering High Renewable Energy Penetration. IET Renewable Power Generation, 2019, 13, 462-474.	3.1	90
5	Modified TID controller for load frequency control of a two-area interconnected diverse-unit power system. International Journal of Electrical Power and Energy Systems, 2022, 135, 107528.	5.5	81
6	Microgrid dynamic security considering high penetration of renewable energy. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	72
7	Renewable power systems dynamic security using a new coordination of frequency control strategy based on virtual synchronous generator and digital frequency protection. International Journal of Electrical Power and Energy Systems, 2019, 109, 351-368.	5.5	71
8	A robust PID controller based on linear quadratic gaussian approach for improving frequency stability of power systems considering renewables. ISA Transactions, 2021, 117, 118-138.	5.7	50
9	A new optimal robust controller for frequency stability of interconnected hybrid microgrids considering non-inertia sources and uncertainties. International Journal of Electrical Power and Energy Systems, 2021, 128, 106651.	5.5	45
10	A New Virtual Synchronous Generator Design Based on the SMES System for Frequency Stability of Low-Inertia Power Grids. Energies, 2020, 13, 5641.	3.1	44
11	Optimized coordinated control of LFC and SMES to enhance frequency stability of a real multi-source power system considering high renewable energy penetration. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	36
12	An Efficient Control Strategy for Enhancing Frequency Stability of Multi-Area Power System Considering High Wind Energy Penetration. IEEE Access, 2020, 8, 140062-140078.	4.2	36
13	A new synthetic inertia system based on electric vehicles to support the frequency stability of low-inertia modern power grids. Journal of Cleaner Production, 2021, 297, 126595.	9.3	34
14	Tustin's technique based digital decentralized load frequency control in a realistic multi power system considering wind farms and communications delays. Ain Shams Engineering Journal, 2019, 10, 327-341.	6.1	30
15	Frequency Stability of AC/DC Interconnected Power Systems with Wind Energy Using Arithmetic Optimization Algorithm-Based Fuzzy-PID Controller. Sustainability, 2021, 13, 12095.	3.2	27
16	Digital coordination strategy of protection and frequency stability for an islanded microgrid. IET Generation, Transmission and Distribution, 2018, 12, 3637-3646.	2.5	25
17	Superconducting energy storage technology-based synthetic inertia system control to enhance frequency dynamic performance in microgrids with high renewable penetration. Protection and Control of Modern Power Systems, 2021, 6, .	7.5	22
18	Optimal Model Predictive and Linear Quadratic Gaussian Control for Frequency Stability of Power Systems Considering Wind Energy. IEEE Access, 2021, 9, 116453-116474.	4.2	21

#	ARTICLE	IF	CITATIONS
19	A sophisticated modeling approach for photovoltaic systems in load frequency control. International Journal of Electrical Power and Energy Systems, 2022, 134, 107330.	5.5	21
20	Frequency Stabilization of Renewable Power Systems Based on MPC With Application to The Egyptian Grid. IFAC-PapersOnLine, 2018, 51, 280-285.	0.9	19
21	An improved Rao algorithm for frequency stability enhancement of nonlinear power system interconnected by AC/DC links with high renewables penetration. Neural Computing and Applications, 2022, 34, 2883-2911.	5.6	18
22	Adaptive Virtual Inertia-Damping System Based on Model Predictive Control for Low-Inertia Microgrids. IEEE Access, 2021, 9, 109718-109731.	4.2	16
23	Decentralized model predictive control strategy of a realistic multi power system automatic generation control. , 2017, , .		13
24	Virtual inertia emulation through virtual synchronous generator based superconducting magnetic energy storage in modern power system. Journal of Energy Storage, 2021, 44, 103466.	8.1	12
25	Automatic Generation Control of a Future Multisource Power System Considering High Renewables Penetration and Electric Vehicles: Egyptian Power System in 2035. IEEE Access, 2022, 10, 51662-51681.	4.2	11
26	Slime Mould Algorithm for Frequency Controller Design of a Two-area Thermal-PV Power System. , 2021, , .		10
27	Designing Optimal PI ^λ D ^μ Controller for LFC of Two-Area Power Systems Using African Vulture's Optimization Algorithm. , 2021, , .		10
28	An efficient coordinated strategy for frequency stability in hybrid power systems with renewables considering interline power flow controller and redox flow battery. Journal of Energy Storage, 2022, 52, 104835.	8.1	9
29	A Novel Design of Decentralized LFC to Enhance Frequency Stability of Egypt Power System Including Wind Farms. International Journal on Energy Conversion, 2018, 6, 17.	0.1	7
30	Robust decentralized model predictive load-frequency control design for time-delay renewable power systems. International Journal of Emerging Electric Power Systems, 2021, .	0.8	5
31	Renewable Power Systems Dynamic Security. Power Systems, 2020, , .	0.5	4
32	A New Coordinated Fuzzy-PID Controller for Power System Considering Electric Vehicles. Energy and Power Engineering, 2017, 09, 425-435.	0.8	4
33	Frequency stability and digital protection coordination of multi-source power system. International Journal of Smart Grid and Clean Energy, 2018, , 240-251.	0.4	3
34	A developed model predictive control algorithm for modular multilevel converter with reduced execution time. , 2017, , .		2
35	Voltage control of modular multilevel converter employing finite control set-model predictive control. , 2017, , .		2
36	Digital frequency protection for micro-grid coordinated with LFC considering high PV/wind penetration level. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	A Comprehensive Digital Protection Scheme for Low-inertia Microgrids Considering High Penetration of Renewables. Power Systems, 2020, , 39-57.	0.5	2
38	Discrete-time optimal controller for load frequency control of multi-source power system in Egypt. , 2018, , .		1
39	Coordination of Optimal LFC and Digital Frequency Relay for Multi-Source Power System in Egypt. , 2018, , .		1
40	A New Frequency Control Strategy in Real Power Systems Considering Wind Energy. Power Systems, 2020, , 15-38.	0.5	1
41	Optimal Parameter Design of MPC for Performance Enhancement of a Two-Area Interconnected Power Grid. , 2021, , .		1
42	Upgrading power system in Egypt towards smart grid. , 2017, , .		0
43	A robust control strategy for mitigating renewable energy fluctuations in a real hybrid power system combined with SMES. AIP Conference Proceedings, 2018, , .	0.4	0
44	Enhancement LFC of a Realistic Multi-Source Power System Concerning Wind Farms Using SMES and New Optimized PID Controller. , 2018, , .		0
45	Introduction and Literature Review. Power Systems, 2020, , 1-13.	0.5	0
46	A New Trend in Control of Renewable Power Systems Based on Virtual Synchronous Generator. Power Systems, 2020, , 89-118.	0.5	0
47	Digital Decentralized Control Scheme in Multi-source Power Systems Based on Mapping Technique. Power Systems, 2020, , 119-143.	0.5	0
48	Dynamic Security Assessment of Low-inertia Microgrids Based on the Concept of Virtual Inertia Control. Power Systems, 2020, , 59-87.	0.5	0